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AVIATION WEEK
COMPUTER DESIGN
ELECTROMECHANICAL DESIGN
CONTROL ENGINEERING
INST. & CONTROL SYSTEMS
ELECTRONICS BUYERS' GUIDE

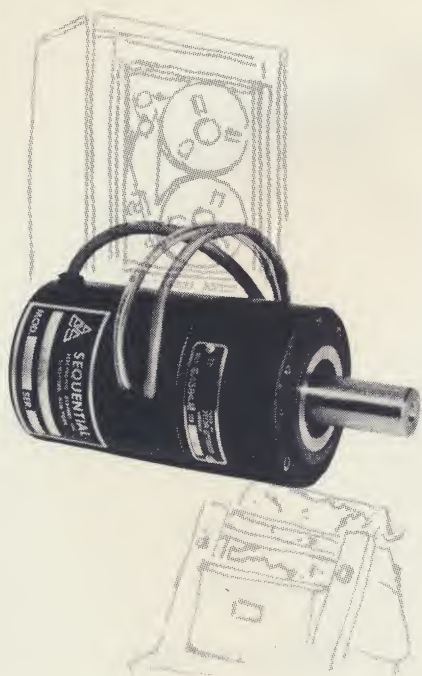
1966 - 1967



**SEQUENTIAL
ELECTRONIC
SYSTEMS
INC.**

66 Saw Mill River Road, Elmsford, New York 10523

(914) LYric 2-8810 TWX 914 592 8368



ENCODED D.C. TORQUE MOTOR

Sequential's Series 200 Encoded D. C. Torque Motors are used in direct and incremental positioning systems in a wide variety of tape recorders, and facsimile scanners and recorders.

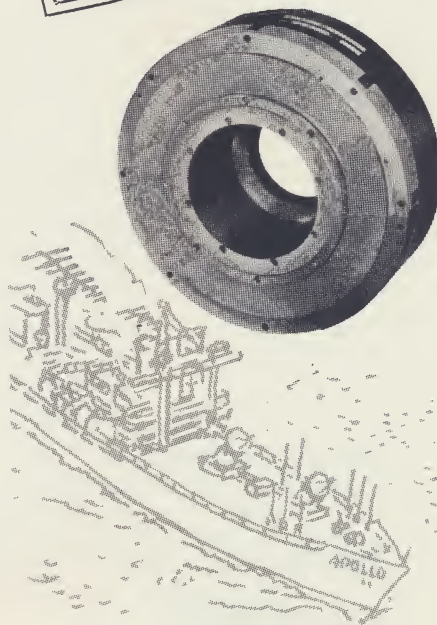
A single package optically encoded d. c. torquer • Integral capstan assembly • 100 micro-inch max. capstan runout • Easy access to brushes in installed unit • Ultra high torque-to-inertia ratio • Fast torquer response time • Low ripple torque • Optical encoders have extremely high density and accuracy • Encoder configurations to meet special applications • Self-contained readout electronics • Control systems for both speed/phase and incremental positioning applications are available • Military and commercial models.

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Write for Bulletin ETM-200



19 BIT NATURAL BINARY OPTICAL ENCODER

Sequential has delivered 19 bit natural binary optical encoders for use on the Marine Star Trackers aboard the Apollo Tracking Ships.

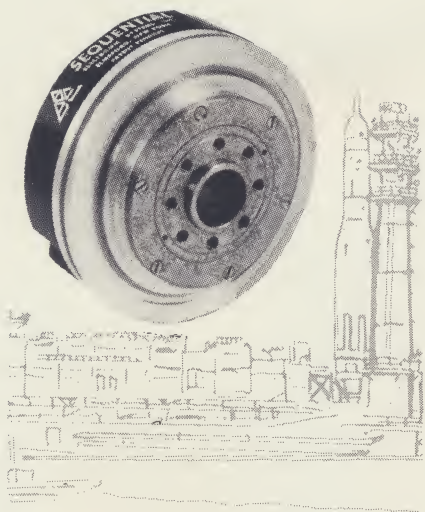
• 19 Bit resolution in 8 inch diameter housing • All electronics in encoder housing • Integrated circuit assemblies • Printed circuit interconnections • Modular construction • Plug-in lamp assemblies, field replaceable • Fiber optic disc illumination • Unique locked-beam technique • No trim adjustment • Outputs unaffected by power supply variations • One hour in-field MTTR • Projected MTBF 15,000 hours

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Write for bulletin SNB-19



OPTI-SCAN

INCREMENTAL OPTICAL ENCODER

OPTI-SCAN encoders are presently operational on inertial platforms used in down range missile tracking programs. The encoder bearing, by supporting the gimbal shaft, functions as the gimbal pivot.

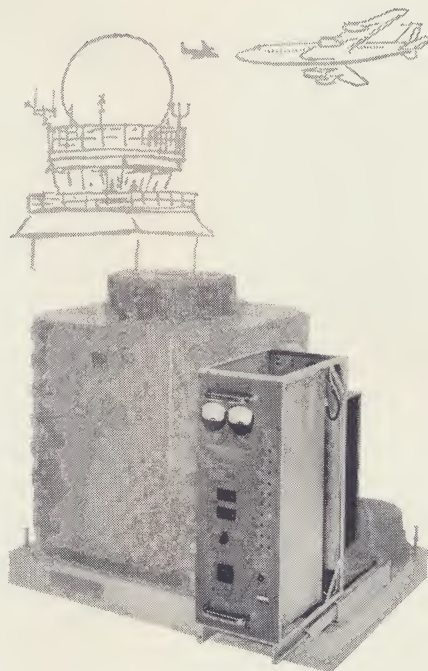
Resolution to 2^{16} in $3\frac{1}{2}$ inch diameter housing • Sine-cosine outputs available for multi-speed resolver servo applications • Signal-to-noise ratio greater than 26db • Operating temperature range from -55°C to $+71^{\circ}\text{C}$ • Readout electronics and level detectors wholly contained within the encoder housing • Integrated circuit assemblies • Printed circuit interconnections • Modular construction • Plug-in lamp assembly, field replaceable • Fiber optic disc illumination • Unique locked-beam optical readout • No trim adjustments • Outputs unaffected by power supply variations and bulb aging • In-field repair capability • 3 year lamp life • Projected electronics MTBF —6 years • Extreme military environment capability.

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Write for Technical Data Sheet OS.



MAGNETIC DRUM SYNCHRONIZATION SYSTEM

Sequential has delivered Magnetic Drum Synchronization Systems for use with the Alpha Numerical Display System currently being installed by the FAA for air traffic control.

- Time displacement error less than 100 ns • Unlimited number of drums can be electronically geared to perform as a single unit
- Non-volatile storage • Absolute position control of all drums under all conditions i.e. even after power failure • Increases storage capacity of alpha-numeric display systems or digital computers on a modular basis • Integrated circuit electronic assemblies available for airborne applications • MTBF greater than 15,000 hours • Meets all applicable MIL-SPECS • No trim adjustments

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Write for Bulletin MDS



RECONNAISSANCE FILM DRIVE SYSTEMS

Sequential film drive systems are used in reconnaissance and surveillance ground and airborne equipment for gathering, processing, transmitting and recording graphic information.

- Direct drive integral capstan • Absolute speed synchronization • 1 Arc-second positional accuracy, zero cumulative error • 3kc closed-loop control bandwidth • 140db closed-loop flutter reduction • Integral electro-optical transducer • 100 micro-inch max. capstan run-out • True zero-speed to saturation speed capability • Integrated circuit assemblies • Printed circuit interconnections • Modular construction • Airborne electronic package volume: $7\frac{3}{4}$ L x $3\frac{3}{8}$ W x $4\frac{1}{6}$ H • Total weight of airborne systems is under 15 lbs. • Meets all applicable MIL-SPECS

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MILITARY AND INDUSTRIAL
OPTICAL SHAFT ANGLE
ENCODERS

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PRECISION AIR BEARING
CENTRIFUGES
AND
ROTARY TABLES

DIGITAL-TO-ANALOG
AND
ANALOG-TO-DIGITAL
CONVERTERS

•

DIGITAL-TO-SYNCHRO OR RESOLVER
AND
SYNCHRO OR RESOLVER-TO-DIGITAL
CONVERTERS

ENCODED TORQUE MOTORS

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SPEED AND POSITION
CONTROL SYSTEMS

INDUSTRIAL CONTROL
AND
DATA LOGGING SYSTEMS

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SPECIAL PURPOSE
DIGITAL COMPUTERS